



SITOP PSE202U/RED.M./DC24V/100VA/NECCL2

SITOP PSE202U NEC Class 2 Redundancy module Input/output: 24 V DC suitable for decoupling two SITOP power supplies Output power restricted to 100 VA

Input	
type of the power supply network	DC voltage
supply voltage	
• at DC	24 ... 24 V
input voltage	
• at DC	19 ... 29 V
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
formula for output voltage	$V_{in} - \text{approx. } 0.5 \text{ V}$
output voltage	
• at output 1 at DC rated value	24 V
product function output voltage adjustable	No
display version for normal operation	Green LED for "both input voltages > switching threshold"; red LED for "at least one input voltage < switching threshold" or "output switched off"
type of signal at output	Isolated relay contact (contact rating 6 A/42 V AC, 30 V DC, but max. 100 VA); Contact closed if one or both input voltages < switching threshold or output is switched off. Setting range of switching threshold 20 V \pm 0.5 V to 25 V \pm 0.5 V
output current	
• rated value	3.8 A
• rated range	3.5 A; 4.3 A at 19 V, 2.8 A at 28.5 V; maximum aggregate current in the event of an error according to NEC class 2 limit 8 A
Efficiency	
efficiency in percent	94.8 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	5 W
• during no-load operation maximum	2 W
Safety	
galvanic isolation	yes, SELV acc. to EN 60950-1 (relay contact)
operating resource protection class	Class III
protection class IP	IP20
Approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; UL-Recognized (UL 60950-1, NEC class 2), File E151273
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; UL-Recognized (UL 60950-1, NEC class 2), File E151273
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	

<ul style="list-style-type: none"> • IECEx • NEC Class 2 • ULhazloc approval • FM registration 	<p>No</p> <p>Yes</p> <p>No</p> <p>No</p>
type of certification CB-certificate	No
certificate of suitability	
<ul style="list-style-type: none"> • EAC approval • C-Tick 	<p>Yes</p> <p>No</p>
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) 	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
EMC	
standard	
<ul style="list-style-type: none"> • for emitted interference • for interference immunity 	<p>EN 55022 Class B</p> <p>EN 61000-6-2</p>
environmental conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	<p>-20 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> • at input • for auxiliary contacts 	<p>Input, output and ground: removable screw terminal, each 1 x 0.5 ... 2.5 mm² single-core/finely stranded</p> <p>Relay contact: 2 screw terminals for 0.5 ... 2.5 mm² single-core/finely stranded</p>
width of the enclosure	30 mm
height of the enclosure	80 mm
depth of the enclosure	100 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	<p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p>
net weight	0.125 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Removable spring-type terminal 6EP1971-5BA00
MTBF at 40 °C	678 210 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

